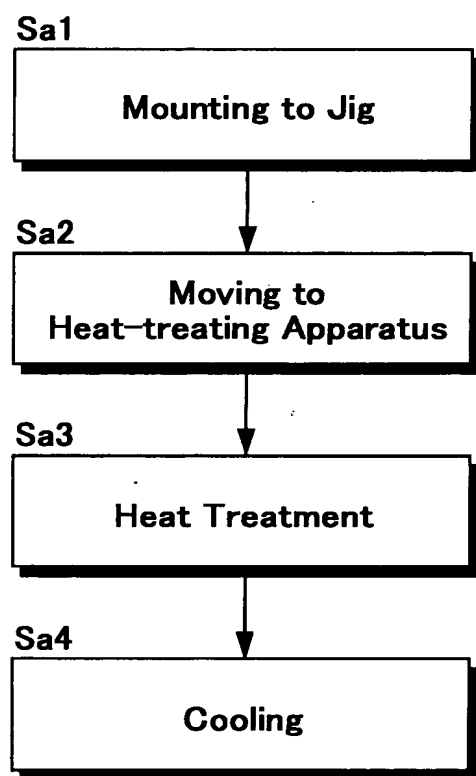


Fig.1

[Resin Molding Heat Treatment]



[Resin Plating]

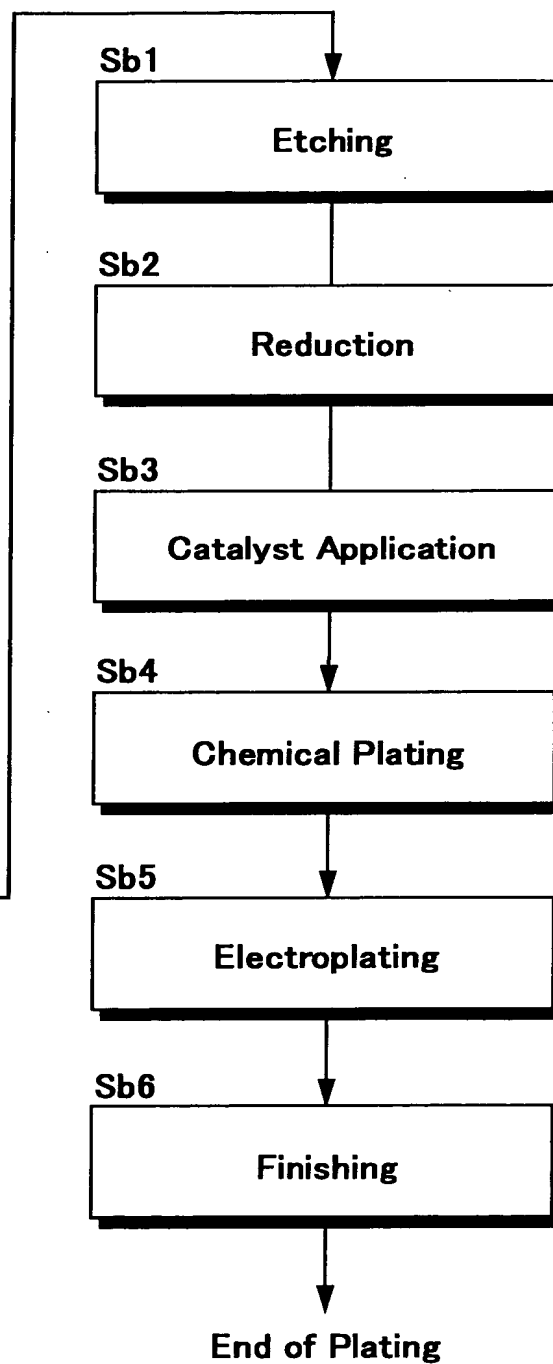
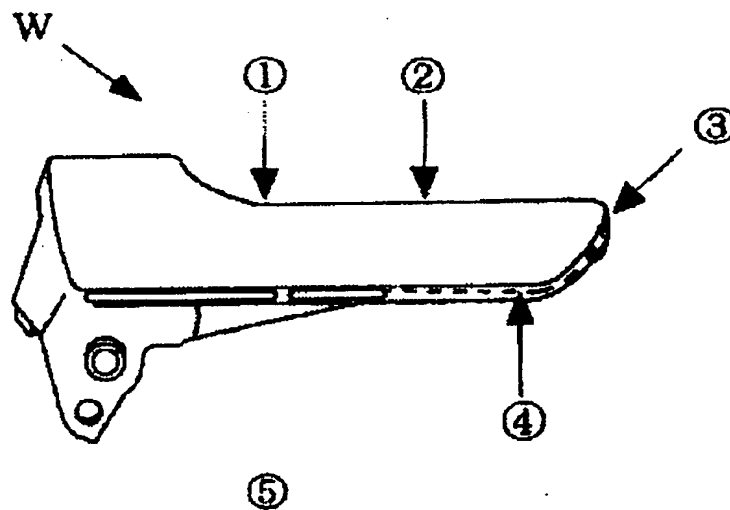


Fig.2

(a)



(b)

1st Measurement

| Treating Conditions | Temperature (° C) | | | | | |
|---------------------|-------------------|---|-------|-------|-------|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| ① | | | 102.5 | 124 | 144.2 | 171 |
| ② | | | 90.8 | 107 | 111.1 | 118.5 |
| ③ | | | 97.9 | 117.2 | 138.8 | 153.6 |
| ④ | | | 89.2 | 111.4 | 130.8 | 151 |
| ⑤(Indoor) | | | 22.2 | 22.2 | 22.2 | 22.2 |

(c)

2nd Measurement

| Treating Conditions | Temperature (° C) | | | | | |
|---------------------|-------------------|------|-------|-------|-------|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| ① | 42.3 | 51.3 | 85.5 | 134.1 | 143.7 | 168.6 |
| ② | 64.5 | 80.6 | 99.1 | 106.3 | 111.8 | 130.2 |
| ③ | 50.4 | 60.9 | 83.1 | 119.9 | 128.4 | 153.2 |
| ④ | 70.7 | 86.2 | 105.3 | 116 | 129.7 | 159.1 |
| ⑤(Indoor) | 22.3 | 22.4 | 22.7 | 22.8 | 22.5 | 22.4 |

Fig.3

| Material Conditions | Plated Part | Sample No. | Number of Cycles of Hot-Cold Shock Test | | | | | |
|------------------------|-------------|------------|---|----|----|-----|-----|-----|
| | | | 10 | 20 | 50 | 100 | 150 | 200 |
| Without heat treatment | A | 1 | ○ | ○ | ○ | × | — | — |
| | | 2 | × | — | — | — | — | — |
| | | 3 | × | — | — | — | — | — |
| | | 4 | ○ | × | — | — | — | — |
| | | 5 | ○ | ○ | × | — | — | — |
| | B | 1 | ○ | ○ | × | — | — | — |
| | | 2 | ○ | ○ | × | — | — | — |
| | | 3 | ○ | ○ | × | — | — | — |
| | | 4 | ○ | ○ | ○ | ○ | × | — |
| | | 5 | ○ | ○ | ○ | × | — | — |
| | C | 1 | ○ | × | — | — | — | — |
| | | 2 | ○ | × | — | — | — | — |
| | | 3 | ○ | ○ | × | — | — | — |
| | | 4 | ○ | ○ | × | — | — | — |
| | | 5 | ○ | × | — | — | — | — |
| Heat-treated | A | 1 | ○ | ○ | ○ | ○ | ○ | ○ |
| | | 2 | ○ | ○ | ○ | ○ | ○ | ○ |
| | | 3 | ○ | ○ | ○ | ○ | ○ | ○ |
| | | 4 | ○ | ○ | ○ | ○ | ○ | ○ |
| | | 5 | ○ | ○ | ○ | ○ | ○ | ○ |
| | B | 1 | ○ | ○ | ○ | ○ | ○ | ○ |
| | | 2 | ○ | ○ | ○ | ○ | ○ | ○ |
| | | 3 | ○ | ○ | ○ | ○ | ○ | ○ |
| | | 4 | ○ | ○ | ○ | ○ | ○ | ○ |
| | | 5 | ○ | ○ | ○ | ○ | ○ | ○ |
| | C | 1 | ○ | ○ | ○ | ○ | ○ | ○ |
| | | 2 | ○ | ○ | ○ | ○ | ○ | ○ |
| | | 3 | ○ | ○ | ○ | ○ | ○ | ○ |
| | | 4 | ○ | ○ | ○ | ○ | ○ | ○ |
| | | 5 | ○ | ○ | ○ | ○ | ○ | ○ |

[Evaluation]

○ : free of blister

× : blister

Air bottle type thermal shock tester

Test Conditions:

80°C/30min → -30°C/30min as one as one cycle, the appearance of product is checked after the end of a predetermined number of cycles.

Fig.4

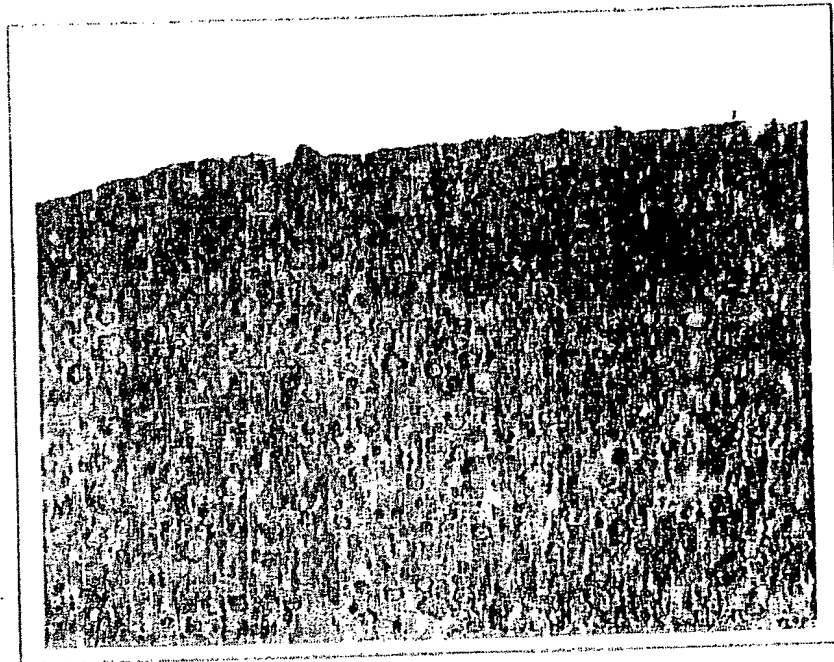


Fig.5

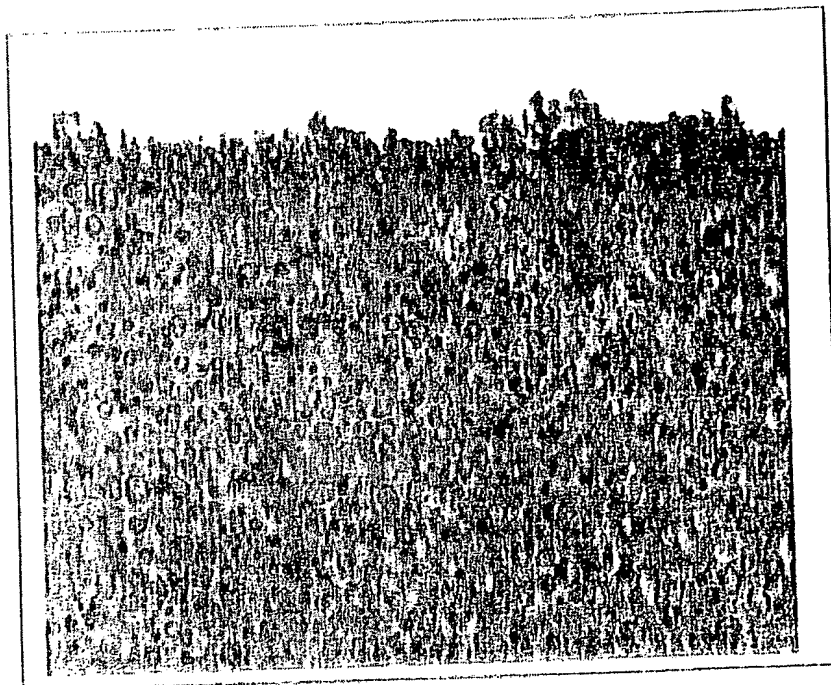


Fig.6

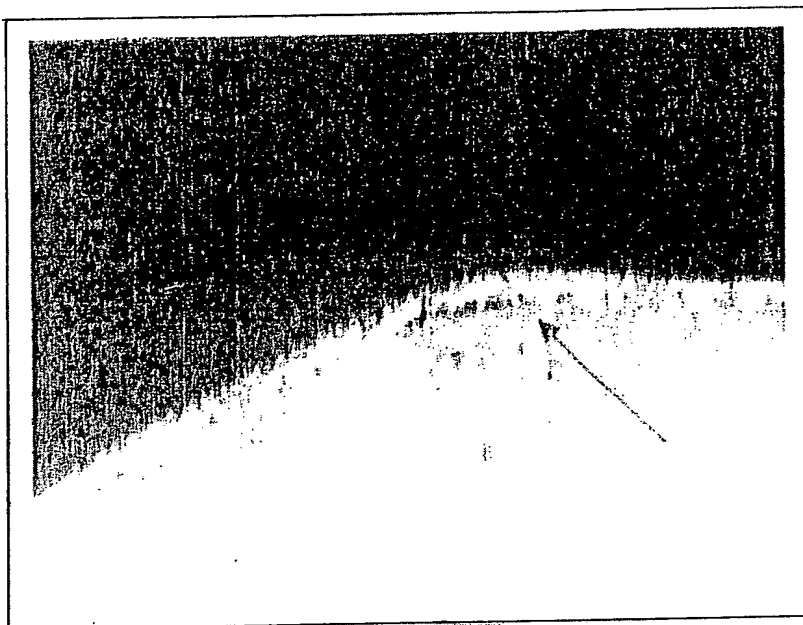


Fig.7

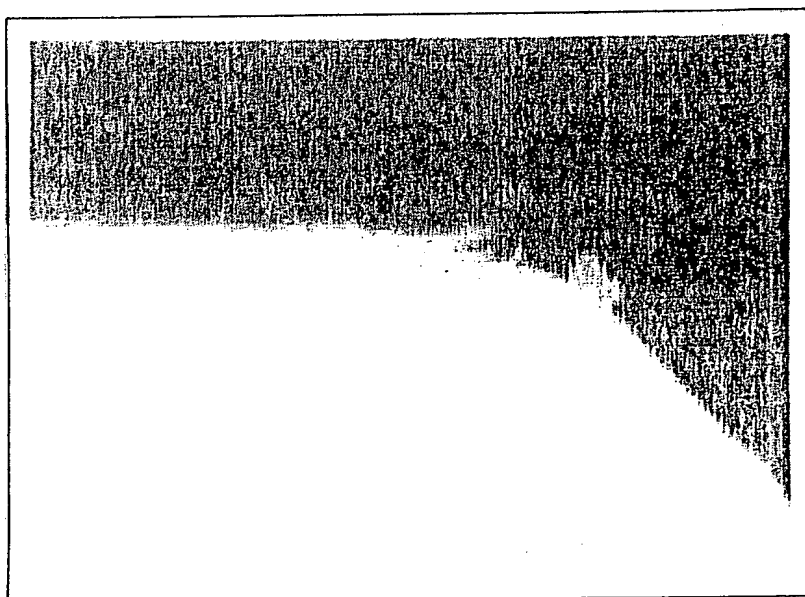


Fig8

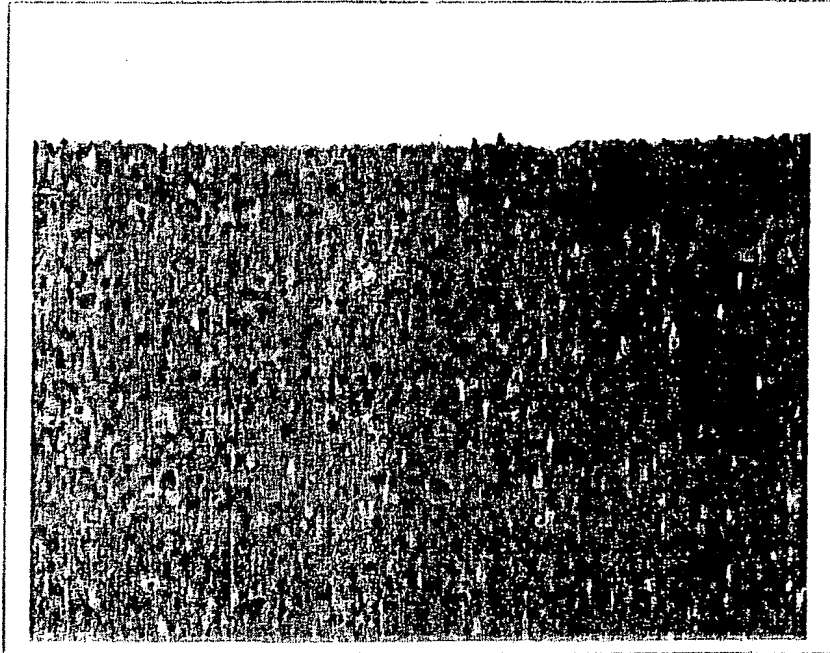


Fig.9

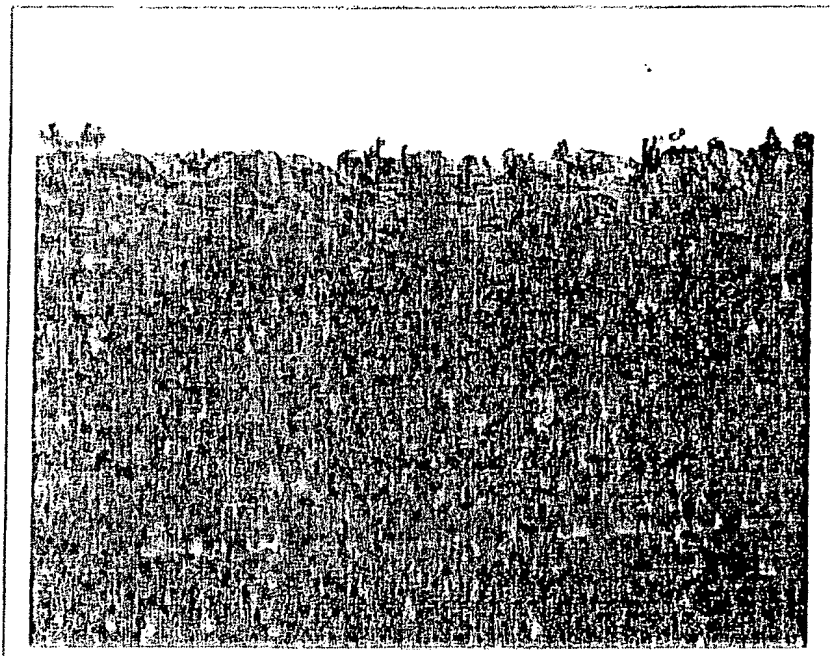


Fig.10

